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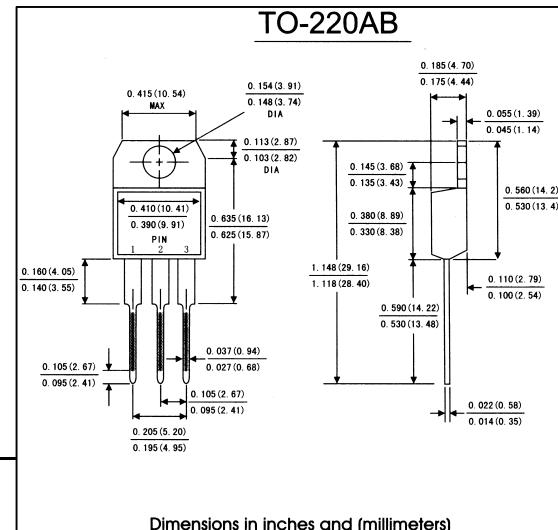
CHENYI ELECTRONICS

SR1535 THRU SR1560**SCHOTTKY BARRIER RECTIFIER****Reverse Voltage - 35 to 60 Volts****Forward Current - 15Amperes****FEATURES**

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal silicon junction ,majority carriet conduction
- . Guard ring for overvoltage protection
- . Low power loss,high efficiency
- . High current capability ,Low forward voltage drop
- . High surge capability
- . For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- . Dual rectifier construction
- . High temperature soldering guaranteed: 250°C/10 seconds
- 0.25"(6.35mm)from case

MECHANICAL DATA

- . **Case:** JEDEC DO-220AB molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** As marked. No suffix indicates Common Cathode, suffix"A" indicates Common Anode
- . **Mounting Position:** Any
- . **Weight:** 0.08 ounce, 2.24 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave,resistive or inductive) load. For capacitive load,derate by 20%)

	Symbols	SR1535	SR1545	SR1550	SR1560	Units
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	25	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	35	45	50	60	Volts
Macimum average forward rectified current(see Fig.1)	I _(AV)			7.5 15.0		Amps
Repetitive peak forward current(square wavr, 20KHz) at T _c =105°C	I _{FRM}			15.0		Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}			150.0		Amps
Maximum instantaneous forward voltage at 10 A(Note 1)	V _F	0.65	0.75			Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	IR		1.0			mA
TA=25°C TA=125°C		15	50			
Typeical thermal resistance(Note 2)	R _θ _{JC}		2.5			°C/W
Operating junction temperature range	T _J		-65 to +150			°C
storage temperature range	T _{STG}		-65 to +175			°C

Notes: 1. Pulse test: 300 μ s pulse width,1% duty cycle

2.Thermal resistance from juntion to case

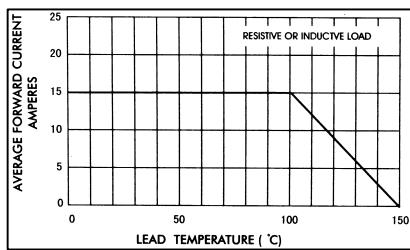
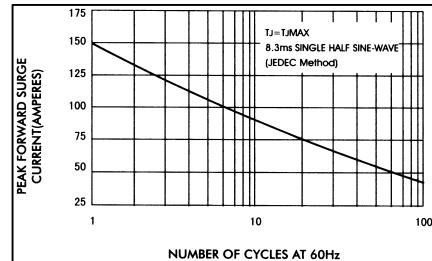
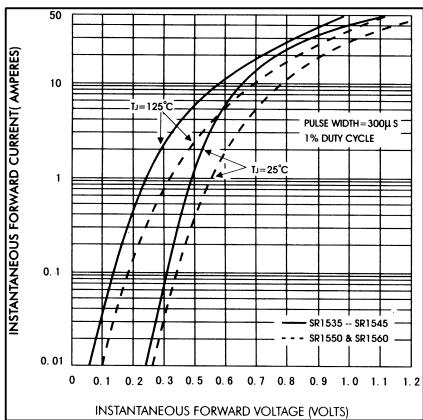
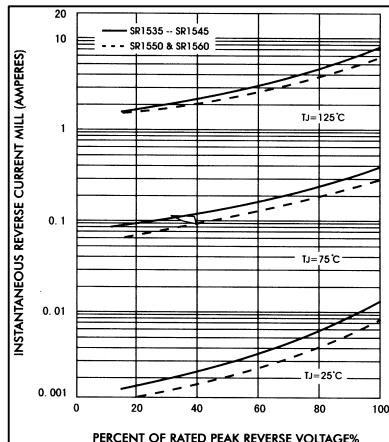
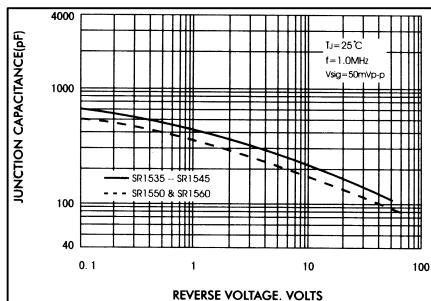
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Reverse Voltage - 35 to 60 Volts

Forward Current - 15Amperes

RATINGS AND CHARACTERISTIC CURVES SR1535 THRU SR1560**FIG.1-FORWARD CURRENT DERATING CURVE****FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT****FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS****FIG.4-TYPICAL REVERSE CHARACTERISTICS****FIG.5-TYPICAL JUNCTION CAPACITANCE****FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE**